

Data Handling / Statistics

“Which is the most popular letter in English?” or “Which is the mostly used alphabet in English?”

You have already collected some data to answer the above questions.

Now is time for you to put all your data in an organize way and further discuss the findings and present your work in a full report.

Check list (Your report should include the followings):

1. A title page

Including: Your name, your class, the topic / title of the report.

2. Introduction and Hypothesis (My own guess)

What is this report about?

How did you class come up with the way to solve this question?

What is your own guess for this question?

e.g. My guess is _____ is the most popular letter in English.

3. Collecting Data (from random sample)

What method or procedures you’ve used to collect the data.

(e.g.: Choose a book / journal / anything written in English, Choose a page, Count around 10-15 rows (~500-1000 characters))

4. Organizing Data (use a tally chart and frequency table)

Letter	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z
Tally																										
Frequency (My own results)																										
Frequency 6 Respect	750	340	300	390	850	300	240	350	555	180	190	420	330	520	580	270	150	400	550	600	260	130	250	70	150	140
Frequency 6 Trust	900	450	440	630	1200	350	400	590	650	230	250	420	380	640	670	350	160	580	680	880	390	210	260	80	220	30
Frequency 6 Joy	910	390	400	520	1280	380	360	600	700	290	280	490	480	740	790	300	90	610	620	820	350	260	300	210	370	90
Frequency 6 Hope	690	160	250	250	840	230	260	420	910	100	200	420	690	630	640	340	100	1480	500	500	330	240	300	160	170	100

**(The different class results are rounded to the nearest 10)*

5. Presenting Data (with bar graph)

- a. Draw a bar graph with your own results (used the graph paper provided by your teacher)
- b. Draw a bar graph with your class total results (round off to the nearest tens), can use graph paper or use computer software to insert graphs.
- c. Draw a compound bar graph with different classes total results (round off to the nearest tens), use computer software to insert graphs.
- d. Draw any other graph your think may help to answer this question.

*Each graph must have:

- I. Heading/ Title,
- II. Proper scale for x and y-axis,
- III. Correctly drawn and labeled axis,
- IV. Spaces between bars,
- V. All bars have even width,
- VI. The height of each bar matches the data, etc.

6. Analyzing and interpreting Data (Conclusion)

- a. Discuss the data, compare with your own guess, the data collected by you, your class and different class and make conclusion (inference).
- b. Do you think the conclusion is accurate? Why? (Hint: you might talk about sample, population, and research from other sources, then compare our student's results with them).
- c. Reflect on what have you learn from this survey and report and how can you improve next time.

Make your report as presentable and colorful as you can.